

Mercurius Anglicanus;

OR THE
English Mercury:

Being a Compleat

DIARY

For the Year of our Lord

1697.

Being the first after ~~three~~ years

CONTAINING

Monthly PREDICTIONS: the Old

ROMAN OR PAGAN KALENDAR, with the

GREGORIAN OR NEW ACCOUNTS: The EQUA-

TION of Time, for the Regulating of *Per-*

dulum Clocks and Watches: An *Exact*

Table, giving an account of the Times of

HIGH WATER, *more Correct and Full* than

others: with Directions for knowing the

true Value of our Gold and Silver Coins.

The like not extant.

By GEORGE PARKER

LONDON:

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READER.

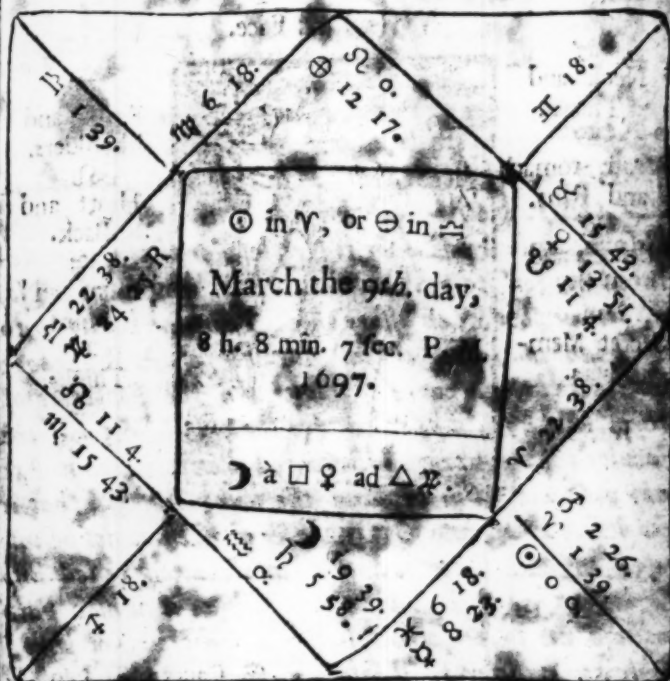
Reader,

LET it not seem strange to thee that I appear in this rough Method this Year, as if I was grown despis'd, or had pierc'd on a Needle; for that I had declar'd my self to be Flagellum Astrologicum: No, no, 'tis neither I can assure thee: I am in charity with all Mankind, and a real Admirer of A. R. T. too: But it is the ignorance of some, and the Fopperies of others, that would be taken for the only Masters of the Faculty that I have endeavour'd to expose; that Art may retain its Purity, and the young Tyro, that is but newly lifted into Urania's service, may not be imposed on, and (for want of Information) led into Error at his first Entrance. This is it which hath induc'd me to perform what is done here: not that I have a prejudic'd Principle against any Man's Person; neither a Contemner of any Invention that has rational Demonstration to plead for it; for such ought to be embraced by all Lovers of Learning, and such I shall endeavour to shew my self, whilst I am

Ball and Star near the Square
in Salisbury Court near
Fleetbridge, London.

George Parker.

The Scheme of the Sun's Entrance into the
Cardinal and Equinoctial Sign *Aries*, from
Astronomia Carolina, for the Meridian of *London*.



Advertisement.

Here is published and sold by this Author an *Ephemeris*
of the Celestial Motions, *Heliocentrick* and *Geocen-*
trick, for this present Year 1697. with Tables of the Sun's
true Declination from correct Observations; and the division
of the 12 houses is exhibited according to several Authors, with
a Projection of the Sphere to demonstrate *Regiomontanus's*
rational way of dividing the Heavens, perform'd by a Line of
Chords. The whole being useful to Astronomers, Astrolo-
gers and Mariners, &c. Price 6 d. Any Person may be fur-
nished with single copies, sending the Price and paying Postage

The Anatomy of Man's Body. As the Parts thereof are governed by the Twelve Signs.

V Head and Face.

♈ Neck and
Throat.

♋ Breast, Stomach
and Ribs.

♌ Bowels and
Belly.

♍ Secret Mem-
bers.

♎ Knees.



♊ Arms and
Shoulders.

♏ Heart and
Back.

♐ Reins and
Loins.

♑ Thighs.

♒ Legs.

♑ The Feet.

The Names of the Twelve Signs.

♈ Aries, ♋ Taurus, ♊ Gemini, ♋ Cancer, ♌ Leo, ♍ Virgo, ♎ Libra, ♏ Scorpio, ♐ Sagittary, ♑ Capricorn, ♒ Aquary, ♒ Pisces.

The Characters of the Seven Planets with their Aspects.

♄ Saturn, ♃ Jupiter, ♂ Mars, ☉ Sol, ♀ Venus, ☿ Mer-
cury, ☾ Luna, ♁ Dragons head, ♏ Dragons tail, ☿ Con-
junction, * Sextile, ☐ Quartile, △ Trine, ☿ Opposi-
tion.

The

The Terms and their Returns for 1697.

Hilary Term begins January 23. ends February 1

<i>Essoin-days.</i>		<i>Accept.</i>	<i>Ret.</i>	<i>Brev.</i>	<i>Appear.</i>
Octab. Hillar. Jan.	21	January 22	Jan.	22	Jan. 23
Quind. Hillar. Jan.	28	January 29	Jan.	29	Jan. 30
Craftin. Purif. Feb.	3	February 4	Febr.	5	Febr. 6
Octab. Purif. Feb.	10	February 11	Febr.	11	Febr. 12

Easter Term begins April 21. ends May 17.

Quind. Pasch. April	10	April 11	April 11	April 12
Tres Pasch. Apr.	16	Apr. 27	Apr. 27	Apr. 28
Mens. Pasch. May	3	May 4	May 4	May 5
Quinq. Pasch. May	10	May 11	May 11	May 12
Craft. Ascens. May	14	May 15	May 15	May 16

Trinity Term begins June 4. ends June 23.

Craft. Trin. May	31	June 1	June 2	June 3
Octab. Trin. June	7	June 8	June 8	June 9
Quind. Trin. June	14	June 15	June 15	June 16
Tres Trin. June	21	June 22	June 22	June 23

Michaelmas Term beg. Octob. 23. ends Novemb. 12.

Tres Mich. Octob.	20	Octob. 21	Octob. 27	October 28
Mens. Mich. Octob.	27	Octob. 28	Octob. 29	October 30
Craft. Ann. Nov.	3	Novemb. 4	Novemb. 5	Novemb. 6
Craft. Mart. Nov.	12	Novemb. 13	Novemb. 15	Novemb. 16
Octab. Mart. Nov.	19	Novemb. 20	Novemb. 21	Novemb. 22
Quind. Mart. Nov.	26	Novemb. 27	Novemb. 27	Novemb. 28

Note, *The Exchequer opens 8 days before any Term begins, except Trinity Term, before which it opens only 4 days.*

A Correct Table of Simple Interest at Six per Cent.

	a Day			a Week			Month			Three Mont.			6 Months			A Year.				
	d.	s.	c.	d.	s.	c.	d.	s.	c.	d.	s.	c.	d.	s.	c.	d.	s.	c.		
10	0	0	0	1	0	0	6	0	0	0	18	0	0	0	36	0	0	0	72	
20	0	0	0	3	0	0	12	0	0	0	36	0	0	0	72	0	0	1	44	
30	1	0	0	4	0	0	18	0	0	0	54	0	0	1	80	0	0	2	16	
40	1	0	0	6	0	0	24	0	0	0	72	0	0	1	44	0	0	2	88	
50	1	0	0	7	0	0	30	0	0	0	90	0	0	1	80	0	0	3	60	
60	1	0	0	8	0	0	36	0	0	1	8	0	0	2	16	0	0	4	32	
70	1	0	0	10	0	0	42	0	0	1	26	0	0	2	52	0	0	5	4	
80	2	0	0	11	0	0	48	0	0	1	44	0	0	2	38	0	0	5	76	
90	2	0	0	12	0	0	54	0	0	1	62	0	0	3	24	0	0	6	48	
100	2	0	0	14	0	0	60	0	0	1	80	0	0	3	60	0	0	7	20	
110	4	0	0	28	0	1	20	0	0	3	60	0	0	7	20	0	1	2	40	
120	8	0	0	45	0	2	40	0	0	7	20	0	1	2	40	0	2	4	80	
130	12	0	0	83	0	3	60	0	0	10	80	0	1	9	60	0	3	7	20	
140	16	0	1	11	0	4	80	0	1	2	40	0	2	4	80	0	4	9	60	
150	20	0	1	38	0	6	0	0	1	6	00	0	3	0	0	0	6	0	0	
160	24	0	1	66	0	7	20	0	1	9	60	0	3	7	20	0	7	2	40	
170	28	0	1	93	0	8	40	0	2	1	20	0	4	2	40	0	8	4	80	
180	32	0	2	22	0	9	60	0	2	4	80	0	4	9	60	0	9	7	20	
190	36	0	2	49	0	10	80	0	2	8	40	0	5	4	80	0	10	9	60	
200	39	0	2	77	1	0	0	0	3	0	00	0	6	0	4	0	12	0	00	
210	79	0	5	54	2	0	0	0	6	0	0	0	12	0	0	1	4	0	0	
220	1	19	0	8	3	0	0	0	9	0	0	0	18	0	0	1	16	0	0	
230	1	58	0	11	8	4	0	0	12	0	0	1	4	0	0	2	8	0	0	
240	1	98	1	1	8	5	0	0	15	0	0	1	10	0	0	3	0	0	0	
250	2	37	1	4	6	6	0	0	18	0	0	1	16	0	0	3	12	0	0	
260	2	76	1	7	38	7	0	0	1	1	0	0	2	2	0	0	4	4	0	0
270	3	16	1	10	15	8	0	0	1	4	0	0	2	8	0	0	4	16	0	0
280	3	56	2	0	92	9	0	0	1	7	0	0	2	14	0	0	5	8	0	0
290	3	96	2	3	96	10	0	0	1	10	0	0	2	0	0	0	6	0	0	0

This Table readily shews the Interest of any Sum of Money to 100 l. and by the help of Addition you may compleat any Sum whatever; and for greater exactness, the Penny is divided into 100 parts, so that 25 is equal to one Farthing, 50 to two, and 75 to three Farthings. It is so easie it needs no Example.

The

The Regal Table.

Kings and Queens.	Born anno.	Began to Reign.	Reigned Y. M.	Since their Reigns ended.	Buried at
William	1102	1066 Oct. 14	20 11	640 Sept. 9	Canterbury
William	1103	1088 Sept. 9	12 11	597 Aug. 2	Winchester
Henry	1108	1100 Aug. 1	35 4	562 Dec. 1	Reading
Stephen	1105	1135 Dec. 2	18 11	543 Oct. 25	Feverham

The Saxon Line restored.

Henry	2	1132	1154	Oct. 25	34	9 508	July 6	Fourcove
Richard	1	1152	1189	July 6	9	9 498	April 6	Fourcove
John		1165	1199	April 6	17	7 481	Oct. 19	Worcester
Henry	3	1207	1216	Oct. 9	9	1 425	Nov. 16	Westminster
Edward	1	1239	1272	Nov. 16	34	8 390	July 7	Westminster
Edward	2	1283	1307	July 7	19	7 371	Jan. 25	Gloucester
Edward	3	1312	1327	Jan. 25	51	5 320	June 21	Westminster
Richard	2	1366	1377	June 21	22	3 298	Sept. 29	Westminster

The Line of Lancaster.

Henry	4	1367	1399	Sept. 29	13	6 284	Mar. 20	Canterbury
Henry	5	1386	1413	Mar. 20	9	5 255	Aug. 31	Westminster
Henry	6	1421	1422	Aug. 31	38	6 237	Mar. 4	Winchester

The Line of York.

Edward	4	1442	1461	March 4	22	1 224	April 9	Winchester
Edward	5	1471	1483	April 9	6	2 214	June 22	Unknown
Richard	3	1448	1483	June 22	3	2 212	Aug. 22	Leicester

The Families united.

Henry	7	1455	1485	Aug. 22	23	10 189	April 22	Westminster
Henry	8	1491	1509	April 22	37	10 150	Jan. 28	Winchester
Edward	6	1532	1547	Jan. 28	6	5 144	July 6	Westminster
Q. Mary		1538	1553	July 6	5	4 139	Nov. 17	Westminster
Q. Elizabeth		1533	1558	Nov. 17	14	4 95	March 24	Westminster

The Two Kingdoms United.

James	1	1566	1603	March 24	22	0 78	March 27	Westminster
Charles	1	1600	1625	May 27	23	11 48	Jan. 30	Winchester
Charles	2	1630	1649	Jan. 30	17	0 12	Feb. 6	Westminster
James		1633	1685	Feb. 6				
William	3	1650	1689	Feb. 13	5	15 3	Dec. 28	Westminster
Mary		1662						

As burning Phosphorus doth bestow his Light
 On wandering Stars and Meteors of the Night;
 So KINGS their Beams to Subjects do dispense,
 And rule their Kingdoms by their Influence.
 Yes tho a Crown be glorious to the Eye,
 A Sea of Sorrow under it doth lie.

January hath xxxi days.

Last Quarter 5 day 18 min. past 11 in the morn.
 New Moon 12 day 55 min. past 8 at night.
 First Quarter 19 day 30 min. past 1 Afternoon.
 Full Moon 27 day, at 52 min. past 1 in the morn.

Day	Remark, days.	☉ ri.	☾ sign.	Drifts H	M H	M
1	Circumci. Dom.	8	o belly	99 A 24	16	31
2		7	o belly	21 10	54	3
3	The Year be-	7	8 reins	3 11	75	36
4	gina with a	7	56 and	15 12	115	14
5	serene	7	55 loins	27 0 M	116	2
6	Epiphany.	7	54 secrets	9 1	147	1
7	sharp Air,	7	53 memb.	21 2	198	4
8	LUCIAN. P.	7	51 thighs	43	329	12
9	same store	7	50 thighs	17 4	23 10	22
10	past Epiph.	7	49 knees	03	18 11	56
11	of Snow by	7	47 and	1 6	7 0	1
12	Drifts, with	7	46 hams	28	1	0
13	HILLARY B.	7	44 legs	135 A	462	51
14	notable	7	43 legs	28 7	63	27
15	Frosts and	7	42 feet	12 8	263	59
16	sharp	7	39 feet	27 9	454	35
17	past Epiph.	7	37 head	12 11	24	23
18	PRISCA V.M.	7	35 face	26 12	185	7
19	Winds.	7	34 neck	10 0 M	186	58
20		7	32 neck	23 1	307	3
21	Quab. Willar.	7	31 arms	7 2	398	9
22	VINCENT.	7	29 arms	20 3	409	32
23	Term begins.	7	27 breast	3 4	33 10	33
24	past Epiph.	7	25 and	16 5	18	1
25	Conv. S. Paul.	7	24 stom.	29 5	540	57
26	somewhat	7	22 heart	11	Drifts 1	47
27	milder before	7	20 heart	23 5 A	382	52
28	Quab. Willar.	7	19 bowels	5 6	422	5
29	The Month ends.	7	17 and	17 7	453	30
30	Ch. E. month	7	15 belly	29 8	483	54
31	Septuagesima.	7	13 reins	1 0	514	19

High Water at London-Bridge in the morning.
 High Water at London-Bridge in the afternoon.

Januarius 1697.

1 day is 8 hours long. } Increased { 0 h. 26 min.
 11 day is 8 hours 26 min. long. } 0 h. 52 min.
 21 day is 8 hours 58 min. long. } 1 h. 24 min.

Jul. Aet.	Rom. Aet.	Kalends, Nones and Ides.		Watch too fast		OBSERVATIONS
1	11	Kalendæ	9	4		W E are now under the influence of the late ☿ ♄ in ♍, and many evil Effects have been observed in times past to follow such Conjunctions, and happy shall we be now if we escape their male influence: for being posited in an Earthy Sign, and in quartile to Jupiter, so it will be well if we are not alarm'd with some dreadful Designs and Villanies hatch'd and contriv'd against Persons of the highest Rank and Quality; Mutinies, Insurrections, vile and scornful Reproaches against Magistracy, arising from a dissatisfied repining sort of People that love to be fishing in troubled Waters, &c.
2	12	iv no.	9	26		
3	13	iii	9	40		
4	14	prid. no.	10	10		
5	15	Nonæ.	10	31		
6	16	viii id	10	50		
7	17	vii	11	9		
8	18	vi	11	27		
9	19	v	11	45		
10	20	iv	12	2		
11	21	iii	12	18		<i>Felix quem faciunt aliena pericula cautum.</i> On the 30th 1649. K. Charles I (the best of Kings) was murder'd. Here pious Charles is on the Scaffold brought By perjur'd Villains, whose dark Souls were taught By Lucifer; that most pernicious Friend, whose Rebel Saints are Parricides 1 st End.
12	22	prid. id	12	34		
13	23	Idus.	12	47		
14	24	xix kal.	13	2		
15	25	xviii	13	15		
16	26	xvii	13	27		
17	27	xvi	13	38		
18	28	xv	13	48		
19	29	xiv	13	58		
20	30	xiii	14	7		
21	31	xii	14	15		
22		xi	14	22		
23		x	14	28		
24		ix	14	34		
25	4	viii	14	38		
26	5	vii	14	42		
27	6	vi	14	45		
28	7	v	14	47		
29	8	iv	14	48		
30	9	iii	14	49		
31	10	prid. kal	14			

February hath xxviii days.

First Quarter the 4 day 39 min. past 6 in the morning.
 New Moon the 11 day 46 min. past 7 in the morning.
 First Quarter the 17 day 16 min. past 11 at night.
 Full Moon the 25 day 41 min. past 7 at night.

NO	MO	Remark. days.	Conf.	sign.	rites	H	M	H	M				
1	2		7	11	reins	23	10	56	4	41	4	59	
2	3	Purificat. V. M.	7	12	secrets	2	2	5		17	5	32	
3	4	Craft. Purif.	7	8	and	17	0	M	25	47	6	17	
4	5	good pleasant	7	6	bladd.	29	1	3	6	47	7	15	
5	6	SAGATHA.	7	4	thighs	12	2	3	7	44	8	17	
6	7	Air and frosty	7	2	thighs	25	3	18			9	29	
7	8	Sexagesima.	7	6	knees	8	3	10		8	10	44	
8	2		6	58	knees	22	4	38	11	20	11	55	
9	3		6	52	legs	6	5	17		0		31	
10	4	Octab. Purif.	6	55	legs	21	5	53	1	1	1	31	
11	5	Remifs	6	53	feet	6	6	5		9	2	29	
12	6	Term ends.	6	51	feet	21	7	A	23	2	51	3	13
13	7	and inclin'd	6	49	head	6	8	46	3	30	3	47	
14	8	Shrove Sunday.	6	4	head	21	10	6	4	4	4	23	
15	2	(& Valentin.	6	45	neck		11	19	4	41	5	0	
16	3	Shrove Tues.	6	43	neck	20	12	31	5	21	5	22	
17	4	Rain	6	41	arms	4	0	M	32	6	11	6	41
18	5	or Snow.	6	39	shoul.	17	1	35	7	11	7	42	
19	6		6	37	breast	0	2	30	8	15	8	49	
20	7	some store	6	35	and	13	3	17	9	25	10	2	
21	8	Sund. in Lent	6	33	stom.	26	3	56	10	23	11	5	
22	2	of Rain	6	31	heart	7	4	36			11	35	
23	3	at hand.	6	29	heart	20	4	57	0	5	0	28	
24	4	St. Matthias.	6	27	bowels	2	5	21	0	52	1	15	
25	5	quick bliftring	6	25	and	1	5	41	1	39	2	2	
26	6	Ember week.	6	23	belly	26	7	1	2	26	2	40	
27	7	Storms of wind.	6	21	reins	8	7	A	46	1	54	3	7
28	8	Sund. in Lent	6	19	reins	20	8	56	3	21	3	34	

Februarius 1697.

1 day is 9 hours 38 min. long } 2 hours 4 min.
 11 day is 10 hours 14 min. long } Incr. } 2 hours 40 min.
 21 day is 10 hours 34 min. long } 3 hours 20 min.

Rom. Ac. Ka ends,
 Nonas,
 and Ides.

Watch
 100 fast.

OBSERVATIONS.

1 11 Kalendæ. 14 48
 2 12 iv no. 14 46
 3 13 iii. 14 44
 4 14 prid. no. 14 41
 5 15 Nonas. 14 37
 6 16 viii id. 14 32
 7 F vii. 14 27
 8 18 vi 14 21
 9 19 v. 14 15
 10 20 iv 14 7
 11 21 iii 13 59
 12 22 prid. id. 13 50
 13 23 Idus. 13 41
 14 F xvi kal. 13 31
 15 25 xv 13 21
 16 26 xiv 13 10
 17 27 xiii 12 59
 18 28 xii 12 47
 19 x xi 12 35
 20 x 12 22
 21 F ix 12 8
 22 4 viii 11 54
 23 5 vii 11 40
 24 6 vi 11 24
 25 7 v 11 9
 26 8 iv 10 54
 27 9 iii 10 38
 28 prid. kal. 10 21

THE first day 1647. the Scotch Army marched over Tweed, having first sold their King to the Parliament of England for 400000l. On the 17 following his Majesty was brought Prisoner to Holmby in Northamptonshire.
 The benevolent Trine Aspect of the Sun and Jupiter in the beginning of this Month gives us good Hopes of an approaching Reconciliation, or a right understanding of former Controversies and Debates, both at home and abroad: and good cause we have to hope that those Difficulties which have been so long under Consideration may now be adjusted to the Content and Satisfaction of the Commonalty, who for some years past have laboured under many Difficulties.
 Let the honest Traveller look about him this Month that he fall not into the hands of Highway-men or Foot-Padders, for the Roads are more than ordinarily afflicted with those Vermin: and many inhumane Murthers are committed upon divers honest hearted Persons: for Mercury in Pisces and joined to Mars all the Month is a great Propagator of such like Villainies.

March hath xxxi days.

Last Quarter the 5 day 19 min. past 10 at night.

New Moon 12 day at 10 min. past 5 afternoon.

First Quarter 18 day at 30 min. past 11 at night.

Full Moon 27 day, 21 min. past 1 afternoon.

W.D.	Remark. days	Oris.	Sign.	Yn.	H.	M.	H.	M.
1	2 DAVID.	6	17	secrets	2	9A	55	3
2	3 A cold	6	15	and	14	10	57	4
3	4 flabby	6	13	bladd.	20	11	58	4
4	5 dripping	6	11	thighs	8	12	54	5
5	6 time about the	6	9	thighs	21	0	M	54
6	7 beginning.	6	7	knees	3	1	47	7
7	8 3 Sun. in Lent	6	5	knees	17	2	34	8
8	9	6	3	legs	0	3	14	10
9	10 pleasant	6	1	and	19	3	52	11
10	11 Air and	5	59	ances	29	4	23	0
11	12 seasonable	5	57	et	14	4	52	0
12	13 GREGORY B.	5	55	feet	29	1	50	2
13	14 weather.	5	53	head	15	7	A	45
14	15 Midlent Sunday	5	51	head	30	9	9	3
15	16	5	49	neck	16	10	24	3
16	17 some nipping	5	47	throat	29	11	32	4
17	18 Frosts,	5	45	arms	13	12	33	5
18	19 EDWARD K.	5	43	shoul.	27	0	M	33
19	20 soon	5	41	breast	10	1	24	7
20	21 changing,	5	39	breast	23	2	5	8
21	22 5 Sun. in Lent	5	37	heart	5	2	40	9
22	23 and warm	5	35	and	17	3	8	10
23	24 Air about	5	33	back	29	3	33	11
24	25 this time.	5	31	belly	11	3	58	0
25	26 Lady day.	5	29	belly	23	4	18	0
26	27	5	27	reins	5	4	1	1
27	28 some Gists	5	25	and	17	2	16	2
28	29 Palm Sunday	5	23	loins	29	7	A	54
29	30 2 of Wind at hand	5	21	secret	11	8	58	3
30	31 bringing Rain.	5	19	mem.	23	10	13	3
31	1	5	17	thighs	5	10	58	4

High Water at London-Bridge in the morning.

High Water at London-Bridge afternoon.

Martius 1697.

1 day is 11 h. 26 min. long }
 11 day is 12 h. 6 min. long } Increased { 3 hours 31 min.
 21 day is 12 h. 46 min. long } { 4 hours 32 min.
 { 5 hours 13 min.

<i>Jul. Ac.</i>	<i>Rom. Ac.</i>	Kalends Nones and Ides.	Watch too fast.
1	11	Kalendae.	10 4
2	12	vi no.	9 47
3	13	v	9 30
4	14	iv	9 13
5	15	iii	8 55
6	16	prid. no.	8 37
7	17	Nonae.	8 19
8	18	viii id	8 1
9	19	vii	7 43
10	20	vi	7 25
11	21	v	7 6
12	22	iv	6 47
13	23	iii	6 28
14	24	prid. id.	6 10
15	25	ii	5 51
16	26	xvii kal.	5 32
17	27	xvi	5 14
18	28	xv	5 55
19	29	xiv	4 36
20	30	xiii	4 17
21	31	xii	3 58
22		xi	3 40
23		x	3 21
24		ix	3 3
25	4	viii	2 49
26	5	vii	2 26
27	6	vi	2 9
28		v	1 51
29	8	iv	1 34
30	9	iii	1 17
31	10	prid. kal.	1 1

OBSERVATIONS.

TIS more than probable that
 we may have news in the be-
 ginning of this Month of great Da-
 mage done the latter part of the last
 by high and lofty Winds, great Storms
 or Hurricanes, occasioned by the
 Retrogradation of *Mercury* in Con-
 junction with the *Sun* near the E-
 quinoctial.
 The *Sun*, that glorious Light of
 the World, is now conjoin'd with
Mars in *Aries* the dormal Dignities
 of one and the Exaltation of the o-
 ther; this menaces some new Eru-
 ption to break forth in the Eastern
 Countries. When the Gall is fired,
 and the Spirits in a ferment, then
 Violence and Destruction are the
 only Rangers upon the Earth's Su-
 perficies.

O thou great *Jehovah*, when wilt
 thou bid thy angry Angel depart
 from the *European* Territories, and
 never to return again?

April hath xxx days.

Last Quarter the 4 day, 55 min. past 9 in the morning.
 New Moon the 11 day, 37 min. before 1 in the morning.
 First Quarter the 17 day, 20 min. past 11 at night.
 Full Moon the 26 day 24 min. past 5 in the morning.

MDI	WOL	Remark, days.	Oris.	D signs	Drise	H.	M.H.	M
1	5	Maun. Thur	5	16 thighs	17 11	51 4	44 5	51
2	6	Good Friday.	5	14 knees	0 12	38 5	26 5	51
3	7		5	12 and	13 0	38 6	16 6	45
4	8	Easter day.	5	10 hams	26 1	15 7	14 7	36
5	2	Some what sur-	5	8 legs	10 1	52 8	18 3	55
6	3	bulent at the	5	6 legs	24 2	29 9	33 10	6
7	4	beginning of	5	4 feet	8 2	59 10	40 11	14
8	5	not Thunder.	5	2 feet	23 3	25 11	48	
9	6	Some Fall of	5	0 head	8 3	56 0	24 1	1
10	7	Rain now at	4	58 face	23 4	25 1	22 2	57
11	8	Low Sunday.	4	57 neck	8 5	22 2	22 2	48
12	2	band, of	4	55 neck	23 0	23 3	8 3	27
13	3	changing.	4	53 arms	8 10	28 3	44 4	1
14	4		4	51 arms	22 11	24 4	22 4	44
15	5		4	49 breast	5 12	10 5	5 5	27
16	6	Sweet and	4	48 breast	19 0	10 5	51 6	16
17	7	windy now	4	46 heart	1 0	48 6	44 7	12
18	8	after Easter.	4	44 and	14 1	19 7	38 8	5
19	2	Quin. Pasch.	4	42 back	26 1	46 8	33 9	2
20	3	more	4	41 bowels	8 2	9 9	31 10	1
21	4	Team begins.	4	40 belly	20 2	30 10	27 10	53
22	5	moderate	4	38 reins	2 2	51 11	22 11	51
23	6	St. George.	4	36 and	14 3	11	0	16
24	7		4	35 loins	25 3	35 0	42 1	4
25	8	St. Mark.	4	33 secrets	7 3	57 1	57 1	55
26	2	Cres Pasch.	4	32 secrets	10 2	57 2	23 2	38
27	3	yet before the	4	30 hipps	28 2	57 2	52 3	7
28	4	Month end	4	29 and	14 9	52 3	22 3	38
29	5	rious and un-	4	27 thighs	27 10	42 3	55 4	14
30	6	seled Wearber	4	25 knees	10 11	25 4	33 4	54

High Water at London-Bridge in the morning.
 High Water at London-Bridge afternoon.

Aprilis 1697.

1 day 13 hours 28 min. long } 5 hour 34 min.
 11 day 14 hours 6 min. long } Incr. { 6 hours 32 min.
 21 day 14 hours 40 min. long } { 7 hours 8 min.

Jul. Acc.	Rom. Ac.	Kalends, Nones, and Ides.	Watch too fast.
1	1	Kalends.	0 45
2	12	iv no.	0 28
3	13	iii	0 12
4	14	Prid. non.	0 3
5	15	Nones.	0 18
6	16	viii Id.	0 33
7	17	vii	0 48
8	18	vi	1 2
9	19	v	1 16
10	20	iv	1 28
11	21	iii	1 41
12	22	Prid. Id.	1 54
13	23	Idus.	2 6
14	24	xviii kal.	2 16
15	25	xvii	2 27
16	26	xvi	2 38
17	27	xv	2 48
18	28	xiv	2 55
19	29	xiii	3 6
20	30	xii	3 14
21		xi	3 22
22	May	x	3 30
23	3	ix	3 37
24	4	viii	3 43
25	5	vii	3 49
26	6	vi	3 53
27	7	v	3 57
28	8	iv	4 1
29	9	iii	4 4
30	10	Prid. kal.	4 7

Of the Eclipses.

There are four Eclipses this year, two of each Liminary; whereof two happen in this Month and the other in October.

The first is of the Sun on the 21 day, after one in the morning; invisible to us, but to our Antipodes it will appear two thirds darkned.

The second is of the Moon on the 26 day, about five in the Morning. She beginneth to be eclipsed in the setting Moon at London, so that we shall have no sight thereof; but the Islands of America, Newfoundland, and those places that lie to the Northward, will have a full view of her from the beginning to the end.

Advertisement.

Mr. Newton, Master of the Mathematical School at Christ Church Hospital, London, hath published a Book of Navigation, the best hitherto extant. Sold by Chr. Huxley in Little Britain

May hath xxxi days.

Last Quarter the 3 day 26 min. past 6 afternoon.
 New Moon the 10 day 49 min. past 9 in the morn.
 First Quarter the 17 day 6 min. past 5 afternoon.
 Full Moon the 25 day 16 min. past 7 afternoon.

MD	AD	Remark, days.	Orif	Sign	Difer	H	MH	M
1	7	Philip & Jac	4 23	knees	13	12A 25	1 5	41
2	8	after Easter.	4 21	legs	60	M 26	5 6	30
3	2	Went. Pasch.	4 20	legs	200	33 6	56 7	26
4	3	often showry in	4 15	feet	41	37	57 3	29
5	4	the beginning.	4 17	feet	181	30 9	2 9	45
6	5		4 16	head	21	57 10	28 10	59
7	6		4 15	head	17 2	24 11	31	
8	7		4 13	neck	22	50 0	10	32
9	8	Rogat. Sunday.	4 12	neck	17 3	28 1	11	31
10	9	Went. Pasch.	4 10	arms	1	Difer 2	22	34
11	2	pleasant Air.	4 8	and	169A	11 2	54 3	14
12	4		4 7	shoul.	30 10	53	33 3	52
13	5	Ascens. Domini	4 5	breast	14 10	46 4	40 4	39
14	6	Craft. Ascens	4 4	stom.	27 11	21 4	48 5	7
15	7	fair and	4 3	heart	10 11	50 5	28 5	50
16	8	after Easter.	4 2	back	22 12	15 6	12 6	35
17	9	Term ends.	4 1	bowels	40	M 15 6	58 7	22
18	3	oft changing	4 0	and	160	37 7	48 8	14
19	4	DUNSTAN.	3 59	belly	280	57 8	42 9	10
20	5	to rain.	3 58	reins	10 1	18 9	36 10	3
21	6	clear and fair.	3 57	reins	12 1	41 10	30 10	52
22	7		3 56	secrets	42	5 11	27 11	57
23	8	Whit Sunday.	3 55	and	162	32	0	21
24	1	and before	3 54	bladd.	28 3	10	45 1	11
25	3	the end of ten	3 53	thighs	11	Difer 1	38 2	4
26	4	Ember Week	3 53	thighs	248A	36 2	30 2	48
27	5	changing to	3 52	knees	79	23 3	7 3	24
28	6	showers.	3 51	hams	20 10	13	41 3	58
29	7	R.C. II. bo. & ret.	3 50	legs	3 10	35 4	14 4	36
30	8	Trinity Sunday	3 50	legs	17 11	54	57 5	16
31	2	Craft. Trin	3 50	feet	0 11	34 5	36 5	56

High Water at London Bridge in the Morning.

High Water at London Bridge in the Afternoon.

Maius. 1697.

1 day 15 hours 14 min. long }
 11 day 15 hours 14 min. long } inc.
 21 day 16 hours 8 min. long }

7 hours 40 min.
 8 hours 10 min.
 8 hour 32 min.

Jul. Acc.	Rom. Acc.	Kalends, Nones and Ides.	Watch too flo.
1	11	Kalenda.	4 10
2	10	vi no.	4 11
3	9	v	4 12
4	8	iv	4 13
5	7	iii	4 12
6	6	prid. non.	4 11
7	5	Nonas	4 10
8	4	viii Id.	4 8
9	3	vii	4 6
10	2	vi	4 3
11	1	v	4 0
12	31	iv	3 56
13	30	iii	3 51
14	29	prid. id.	3 46
15	28	Idus	3 40
16	27	vii kal.	3 34
17	26	vi	3 28
18	25	v	3 21
19	24	iv	3 13
20	23	iii	3 5
21	22	prid.	2 56
22	21	xii	2 48
23	20	xi	2 39
24	19	x	2 29
25	18	ix	2 19
26	17	viii	2 9
27	16	vii	1 59
28	15	vi	1 48
29	14	v	1 37
30	13	iiii	1 25
31	12	prid. kal.	1 14

OBSERVATIONS.

Saturn is now become stationary to Retrogradation, and *Mars* is got into the celestial Bull, afflicted by *Saturn's* quartile; this seems to ferment some new Discords, Up-
 roars or Mutinies in Ireland, by the Rapparees and other disaffected Persons of that Kingdom. *Mars* in *Taurus* is but a mean Position to support a rotten Cause: let then the Abettors of all rebellious Principles take warning by the Divine Justice that has already befallen their fellow
 Animals in time past, and let them bear it always in their minds, as a Beacon before their Eyes to give notice of the danger that attends them.
 On the 20. 1685. *Titus Oates* being found guilty of 3 horrid Perjuries, was whipt from *Allegate* to *Newgate*, and on the 22 from *Newgate* to *Tyburn's* where he received (as 'tis related) 2256 stripes (tho I know not who could keep a true account, for I am sure *Titus* himself was too busy) a severe Lashing I confess; yet a gentle Punishment to retaliate such monstrous Crimes.

June hath xxx days.

Last Quarter the 1 day, 27 min. past midnight.

New Moon the 8 day, 50 min. past 5 in the afternoon.

First Quarter the 16 day, 7 min. past 10 in the morning.

Full Moon the 24 day 8 min. past 7 in the morning.

MON	Remark. days.	Orif.	D signs	Rises	H.	M.H.	M
1	3 This Month	3 49	feet	14 11 58	6	31 7	0
2	4 Summer Week.	3 49	feet	28 12 24		28 8	9
3	5 begins with	3 49	head	12 0 M 24 8		39 9	11
4	6 Term begins.	3 48	face	27 0 52 9		46 10	18
5	7 BONIFACE. B	3 48	neck	11 1 23 10		51 11	24
6	8 past Trinity.	3 48	neck	26 2 1 11		57	
7	9 Octab. Trin.	3 47	arms	10 2 46 0		35 1	7
8	10 frequent	3 47	arms	24 1 15 2		15 2	5
9	11 showers of rain.	3 47	breast	8 8 A 35 2		30 2	56
10	12 Sand pleasant	3 47	stom.	21 9 14 3		15 3	33
11	13 St. Barnabas.	3 47	heart	5 9 44 3		49 4	5
12	14 Salubrious air.	3 47	back	18 10 13 4		23 4	41
13	15 past Trinity.	3 47	bowels	6 10 36 4		58 5	16
14	16 Quind. Trin.	3 47	and	12 10 58 5		37 5	59
15	17 3	3 45	belly	24 11 17 6		17 6	35
16	18 yet we hope	3 45	reins	6 11 37 6		57 7	19
17	19 St. ALBAN.	3 48	and	18 12 27		44 8	10
18	20 is proves in the	3 49	loins	29 0 M 28		37 9	4
19	21 general a good	3 49	secrets	12 0 28 9		30 9	57
20	22 past Trinity.	3 49	secrets	24 0 59 10		35 11	13
21	23 Craft. Trin.	3 50	thighs	6 1 35 11		44	
22	24 season for the	3 50	thighs	19 2 18 0		15 0	42
23	25 Term ends.	3 51	knees	23 9 1		20 1	43
24	26 St. John Bapt.	3 51	and	16 1 2		72	30
25	27 Hay-makers.	3 52	hams	29 8 A 32 2		54 2	10
26	28 7	3 52	legs	13 9 43		26 3	42
27	29 past Trinity.	3 53	legs	27 9 31 3		58 4	16
28	30 2	3 54	feet	11 9 58 4		34 4	55
29	31 St. Pet. & Paul.	3 55	feet	25 10 21 5		17 5	34
30	32 4	3 56	head	9 10 59 6		11 6	37

High Water at London-Bridge in the morning.
High Water at London-Bridge in the afternoon.

Junius 1697.

1 day is 16 hours 18 min. long } 8 hours 44 min.
 11 day is 16 hours 26 min. long } incr. } 8 hours 52 min.
 21 day is 16 hours 20 min. long } decr. } 0 hours 6 min.

Jul. Acc.	Ro. Acc.	Calends, Nones, and Ides	Watch too flo.
-----------	----------	--------------------------	----------------

1	11	Kalendæ	1 2
2	12	iv no.	0 59
3	13	iii	0 37
4	14	ii no.	0 25
5	15	Nonæ.	0 13
6	16	viii Id.	0 * 0
7	17	vii	0 13
8	18	vi	0 26
9	19	v	0 39
10	20	iv	0 52
11	21	iii	1 8 4
12	22	prid. Id.	1 17
13	23	Idus.	1 30
14	24	viii kal.	1 43
15	25	xvii	1 56
16	26	xvi	2 8
17	27	xv	2 20
18	28	xiv	2 32
19	29	xiii	2 44
20	30	xii	2 56
21	31	xi	3 7
22	1	x	3 19
23	2	ix	3 30
24	3	viii	3 41
25	4	vii	3 51
26	5	vi	4 1
27	6	v	4 11
28	7	iv	4 20
29	8	iii	4 29
30	9	prid. kal.	4 37

OBSERVATIONS.

ON the 21. 1675. the first Stone was laid for the rebuilding of the Cathedral Church of St Paul in London, and in 1694. the East part extending to the great Dome, was compleatly finished; and now that vast Fabrick, which many thought at the beginning would never be finished, this present year 1697, having been but twenty two years a performing, advances its lofty Stones, and indicates that a few years more will compleat the Work.

In the year 1137, all Rochester was burnt, with 39 Churches.

Advertisement.

Warham's Apoplectick Balsam from Florence, of known Virtues in most parts of the Kingdom, against Apoplexies, Convulsions, &c. with a large printed Paper of its Virtues and Uses, given with each Box. Sold by the Author at the Golden Ball in Red-Lion-Square, London, and in several other places in England.

July hath xxxi days.

Last Quarter 1 day 25 min. past 1 in the morn.
 New Moon 8 day 42 min. past 4 in the morn.
 First Quarter 16 day 46 min. past 3 in the morn.
 Full Moon 23 day, at 10 min. past 5 Afternoon.
 Last Quarter 30 day at 33 min. past 10 in the morn.

MD	MD	Remark. days.	○ ri.	☾ sign.	☾ rise.	H	MH	M
1	5	Some Thunder	3	57	head	23	11 207	47 31
2	6	VISIT. of B.V.	3	58	neck	7	11 547	59 8 33
3	7	Claps about the	3	59	throat	21	12 369	89 46
4	8	past Trinity.	4	0	arms	5	0M 36 10	24 11 0
5	9	End of the	4	1	arms	19	1 25 11	36 High
6	10	last Month	4	2	breast	32	20 0	8 0 41
7	11	or at the be-	4	3	and	17	3 20 1	11 1 41
8	12	ginning of	4	4	stem.	30	1 2	8 2 34
9	13	this, and a	4	5	heart	13	8 A 102	49 3 9
10	14	cloudy dark	4	6	back	26	8 353	24 3 39
11	15	past Trinity.	4	7	bowels	8	8 563	52 4 5
12	16	Air.	4	8	belly	20	9 194	22 4 40
13	17		4	9	reins	2	9 404	5 5 16
14	18		4	10	and	14	10 35	33 5 50
15	19	SWITHIN.	4	11	lows	26	10 286	12 6 35
16	20	Hail storms	4	12	secrets	8	10 576	57 7 20
17	21	if not Thunder	4	13	bladd	20	11 307	48 8 17
18	22	past Trinity.	4	14	hips	2	12 98	46 9 16
19	23	Dog-days beg.	4	15	and	14	0 M 99	52 10 29
20	24	MARGARET.	4	16	thighs	27	0 58 11	2 11 35
21	25	and cloudy	4	17	knees	10	1 54	0 6
22	26	MARY MAG.	4	18	knees	24	2 59 0	38 0 56
23	27	often	4	19	legs	8	2 1	34 2 1
24	28	bringing rain,	4	20	legs	22	7 A 33 2	31 2 51
25	29	James Apost.	4	21	feet	6	8 13	10 3 27
26	30	ANN. M to VM	4	22	feet	21	8 18 3	44 4 3
27	31	inasmuch that	4	23	head	6	8 54 4	22 4 42
28		it is to be feared	4	24	head	20	9 24 5	2 5 23
29		July will not	4	25	neck	4	9 58 5	44 6 10
30		prove what we	4	26	neck	18	10 32 6	37 7 8
31		will be far.	4	27	should	21	7 21 7	40 8 16

Quintilis. 1697.

1 day is 16 h. 6 min. long	} decreased }	0 hours 0 min.
11 day is 15 h. 44 min. long		0 hours 42 min.
21 day is 11 h. 14 min. long		1 hour 13 min.

Jul. Ac.	Rom. Ac.	Kalends	Watch	None s.	too fast.	
		and Ides				

1	11	Kalendas	4	45
2	12	vi no.	4	53
3	13	v	5	0
4	14	iv	5	7
5	15	iii	5	13
6	16	prid. no.	5	18
7	17	Nonas	5	24
8	18	viii id	5	29
9	19	vii	5	33
10	20	vi	5	36
11	21	v	5	39
12	22	iv	5	42
13	23	iii	5	44
14	24	prid. id.	5	45
15	25	Idus	5	46
16	26	xvii kal.	5	46
17	27	xvi	5	45
18	28	xv	5	44
19	29	xiv	5	42
20	30	xiii	5	40
21	31	xii	5	38
22		xi	5	34
23		x	5	30
24		ix	5	26
25		viii	5	20
26		vii	5	14
27		vi	5	8
28		v	5	2
29		iv	4	14
30		iii	4	46
31		prid. kal.	4	37

OBSERVATIONS.

Saturn and Mercury are now in Heliocentrick Conjunction, being not far elongated from Terra; hence I conjecture a cold time again, as it has been for some years past: for when Saturn and Mercury unite their Rays together, they cause frigid Season, if the time of the year per-
mits.

Venus is in her Aphelion Retrograde, and in Conjunction with Mars in the humane sign Gemini; hence some Persons will be more than ordinarily addicted, by these Influences, to contract some oddness upon their Persons or Reputations of the effects or nature of Venus which signifies Drinking, Feasting, Revelling, and a more than common degree of Luxury and Lasciviousness. Nature hath her intercourse with Extreame, whose mediums are the sweetest Enjoyments, hence a dark Night makes us prize the glorious Rays of the Sun, and the Afflictions of a dreadful Enemy to value the Happiness and Comforts of a true Friend.

August hath xxxi days.

New Moon the 6 day 49 min. past 5 in the afternoon.
 First Quarter the 14 day 53 min. past 8 at night.
 Full Moon the 22 day 13 min. past 2 in the morning.
 Last Quarter the 28 day 28 min. past 7 in the afternoon.

MD	WD	Remark, days.	Orif.	sign.	Rises	H	M	H	M
1	C	past Trinity.	4 40	arms	16	M	8	52	9
2	2	Fine refreshing	4 42	arms	19	0	14	10	6
3	3	Showers and	4 44	breast	12	1	12	11	17
4	4	fresh Gales of	4 46	breast	26	2	14	0	0
5	5	Wind.	4 48	heart	9	3	21	0	48
6	6		4 50	back	21	sets.	1	39	2
7	7		4 51	bowels	47	A	2	26	2
8	C	past Trinity.	4 53	and	16	7	23	3	3
9	2		4 55	belly	28	7	44	3	29
10	3	LAURENCE.	4 57	reins	10	8	63	5	74
11	4	clear and fair	4 59	reins	22	8	29	4	27
12	5	with warm air,	5	secrets	48	5	56	5	15
13	6	if not claps of	5	and	16	9	28	5	37
14	7	thunder.	5	bladd.	28	10	96	2	16
15	C	past Trinity.	5	thighs	12	10	53	7	15
16	2		5	thighs	27	11	43	8	17
17	3	windy,	5	knees	5	12	44	9	25
18	4	and somewhat	5	hams	18	0	44	10	34
19	5	changing to wet	5	legs	2	1	52	11	43
20	6		5	legs	16	3	60	1	59
21	7		5	feet	14	2	21	12	1
22	C	past Trinity.	5	feet	15	Drises	2	9	2
23	2		5	head	0	7	A	2	54
24	3	Bartholomew	5	head	15	7	33	3	38
25	4	towards the	5	head	30	8	64	4	16
26	5	and the fear an	5	neck	14	8	43	4	50
27	6	unseasonable	5	throat	29	9	23	5	36
28	7	AUGUSTINE.	5	arms	13	10	16	6	33
29	C	past Trinity.	5	arms	26	11	13	7	34
30	2	time for the	5	breast	12	12	16	8	46
31	3	Harvest man.	5	stom.	0	M	16	9	53

High Water at London Bridge. Afternoon.
 High Water at London Bridge. Morning.

Sextilis 1697.

1 day is 14 hours 40 min. long }
 11 day is 14 hours 3 min. long } decr. }
 21 day is 13 hours 16 min. long } 1 hour 46 min.
 } 2 hours 24 min.
 } 3 hours 0 min.

Jul. Acc.	Ro. Acc.	Kalends, Nones, and Ides	Watch too fast.
1	F	Kalendae	4 28
2	12	iv 10	4 18
3	13	iii	4 8
4	14	prid. no.	3 57
5	15	Nonae.	3 46
6	16	viii Id.	3 37
7	17	vii	3 21
8	18	vi	3 8
9	19	v	2 55
10	20	iv	2 42
11	21	iii	2 27
12	22	prid. Id.	2 13
13	23	Idus.	1 58
14	24	ix kal.	1 42
15	25	viii	1 26
16	26	vii	1 9
17	27	vi	0 52
18	28	v	0 35
19	29	xiv	0 17
20	30	xiii	0 1
21	31	xii	0 18
22	1	xi	0 36
23	2	x	0 55
24	3	ix	1 14
25	4	viii	1 34
26	5	vii	1 53
27	6	vi	2 12
28	7	v	2 32
29	8	iv	2 52
30	9	iii	3 13
31	10	prid. kal.	3 22

An Explanation of the Weights for Gold and Silver Coins now in Use.

The present ill Circumstances of the Coin have induced me to make this Explanation to inform those that are strangers to its weights and whereas there is much use of a Weight called a Penny-weight, which many stumble at, thinking it to be no more than our Silver-penny sterling, I will first give a further light than perhaps the Reader is acquainted withal.

The Sterling Standard of the Monies of England was first coined at a place called *Steerling*, by *Osbright*, a Saxon King of England, near 800 years since.

At which time one ounce of Silver Troy wt. was divided into 20 pieces, and so esteemed 20 d. that is, each piece a penny: and so it continued till K. *Henry VI.* who valued the ounce at 30 d. Then the former pieces or Pence, went for three half-pence till K. *Edward IV.* when the same ounce was valued at 40 pence; so that the aforesaid Piece then went for 2 d.

September hath xxxi days.

New Moon the 1 day 43 min. past 8 in the morn.

First Quarter the 13 day 45 min. past noon.

Full Moon the 20 day 11 min. before noon.

Last Quarter the 26 day 15 min. past 11 at night.

M.D.	M.D.	Remark. days.	Orif.	Ugh	Times	H	M	H	M
1	4	A wet and	5	38 heart	3	1	19	11	0
2	5	London burnt.	5	40 back	8	2	25	11	58
3	6	slabby season	5	42 bowels	0	3	31	0	21
4	7	all the former	5	44 and	1	3	38	1	25
5	8	4 past Trinity.	5	46 belly	4	5	44	1	59
6	9	2 part of this	5	48 reins	7	0	51	2	38
7	10	3 Month.	5	50 reins	19	6	48	3	11
8	11	Nat. V. MARY	5	52 secrets	1	7	14	3	39
9	12	5	5	54 and	2	7	42	4	94
10	13	6	5	56 bladd	2	8	17	4	42
11	14	7 now more	5	58 thighs	8	8	58	5	20
12	15	8 past Trinity.	5	0 thighs	18	9	45	6	56
13	16	2 serene and	6	1 knees	1	10	39	6	58
14	17	3 HOLY CROSS	6	2 and	1	11	41	7	57
15	18	4 Ember Week.	6	3 hams	2	12	52	9	49
16	19	5 fair weather.	6	4 legs	10	0	52	10	12
17	20	6	6	10 legs	2	4	58	11	15
18	21	7	6	12 feet	9	3	18		9
19	22	8 past Trinity.	6	14 feet	2	4	45	0	55
20	23	2 about this	6	16 head	9	0	51	1	59
21	24	3 St. Matthew Ap.	5	18 head	2	4	13	2	49
22	25	4 time and the	6	20 neck	9	6	51	3	27
23	26	5 remaining part	6	22 throat	2	4	33	4	34
24	27	6 of the Month	6	24 arms	8	8	23	4	45
25	28	7 will in the ge-	6	26 arms	2	9	19	5	28
26	29	8 past Trinity.	6	27 breast	6	10	20	6	26
27	30	2 heral prove	6	29 tom.	19	11	25	7	26
28	31	3 windy	6	31 heart	2	12	31	8	29
29	1	4 St. Michael.	6	33 and	15	0	31	9	40
30	2	5 and wet.	6	35 back	2	1	35	10	35

High Water at London Bridge in the Morning.

High Water at London Bridge Afternoon.

September 1697.

1 day is 12 hours 44 min. long. }
 11 day is 12 hours 4 min. long. } decreased } 3 h. 42 min.
 21 day is 11 hours 28 min. long. } 4 h. 22 min.
 } 4 h. 58 min.

Jul. Acl.	Rom. Acl.	Kalends, Nones and Ides	Watch too flo.
1	11	Kalend. x.	3 53
2	12	iv no.	4 14
3	13	iii	4 34
4	14	prid. no	4 55
5	15	Nonæ.	5 15
6	16	viii id	5 36
7	17	vii	5 56
8	18	vi	6 17
9	19	v	6 38
10	20	iv	6 58
11	21	iii	7 19
12	22	prid. id	7 39
13	23	Idus.	7 59
14	24	xviii kal.	8 19
15	25	xvii	8 38
16	26	xvi	8 58
17	27	xv	9 18
18	28	xiv	9 37
19	29	xiii	9 57
20	30	xii	10 16
21	1	xi	10 34
22	2	x	10 52
23	3	ix	11 10
24	4	viii	11 28
25	5	vii	11 45
26	6	vi	12 2
27	7	v	12 18
28	8	iv	12 33
29	9	iii	12 49
30	10	prid. kal.	13 4

ON the second day, 1666, began the sad and dreadful Fire of London, which continued the third, fourth, and fifth days, till it had destroyed 12500 Houses, besides many stately Churches, Halls and other noble Edifices.

On the fifth 1694, Warwick burnt.

The Descript. of the Weights for Gold and Silver contin.

Then K. Henry 8. did value the same ounce at 45 pence; and so it continued till Edw. 6. and Q. Eliz.

And then the same peny was valued at 3 d. so that the ounce came then to be 5 s. or 60 d.

And at this time the value of the ounce is 5 s. 2 d. so that 1 peny now is 3 d. and almost half farthing.

In TROY-WEIGHT.

12 ounces make one pound.
 20 peny weight are one ounce.
 24 grains are one peny weight.
 So that English Coin
 In Gold; 1 lb Troy w^t is worth 8 l.
 In Silver; 1 lb is worth 3 l. 2 s.
 In Gold; 1 ounce is worth 4 l.
 In Silver; 1 ounce is worth 5 s. 2 d.

October hath xxxi days.

New Moon 3 day 51 min. past 1 in the morn.
 First Quarter 13 day 42 min. past 2 in the morn.
 Full Moon 19 day a Quarter before 8 at night.
 Last Quarter 26 day 31 min. past 4 afternoon.

MD.	WD.	Remark. days.	© rif.	D sign.	☾ rif.	H.	M.	H.	M.
1	6		6 37	bowels	10 2M 40	11	32	12	0
2	7	October begins	6 39	belly	22 3 49 0		00		29
3	C 18	past Trinity	6 41	reins	44 55 0		42	1	13
4	2	with good plea-	6 43	and	16 5 52 1		35	1	57
5	3	sant weather	6 45	loins	27 D sets. 2		15	2	34
6	4	intermingled	6 47	secret	9 5A 53 2		52	3	10
7	5	with b fertile	6 49	memb.	21 6 26 3		24	3	38
8	6	flowers.	6 51	hips	37 43		54	4	10
9	7	DENNIS.	6 53	and	15 7 48 4		28	4	46
10	C 19	past Trinity.	6 55	thighs	27 8 40 5		65		26
11	2		6 57	knees	10 9 38 5		43	6	1
12	3		6 59	knees	23 10 42 6		32	7	2
13	4	cloudy and	7 0	legs	6 11 52 7		39	8	4
14	5	St. Jam. II. born.	7 1	legs	19 13 6 8		37	9	10
15	6	cold Air.	7 2		31 M 6 9		46	10	22
16	7		7 3	feet	17 2 23 10		58	11	25
17	C 20	past Trinity	7 4	head	23 42		0		7
18	28	Luke Evang.	7 10	face	17 5 50		39	1	2
19	3	warmer now	7 11	neck	2 1 36 2		29	2	53
20	4	Tref. Mich.	7 13	neck	17 5A 29 2		17	3	36
21	5	and pleasant	7 15	should.	26 16 3		55	4	14
22	6		7 17	arms	17 7 11 3		33	4	56
23	7	Term begins.	7 19	breast	18 12 4		96		34
24	C 21	past Trinity.	7 21	breast	15 9 17 5		20		44
25	2	Etislin.	7 23	breast	29 10 23 6		07		31
26	3	often overcast,	7 25	heart	12 11 31 7		28		28
27	4	Dens. Mich.	7 26	heart	24 12 37 8		55	9	25
28	5	St. Sim. & Jude.	7 28	bowels	7 0M 37 8		56	10	23
29	6	with brisk	7 30	belly	19 1 42 9		50	11	18
30	7	winds.	7 31	reins	12 43 10		47		
31	C 22	past Trinity.	7 33	loins	13 44 11				

High Water at London Bridge in the morning.

High Water at London Bridge afternoon.

October 1697.

1 day is 10 hours 46 min. long } 5 hours 40 min.
 11 day is 10 hours 6 min. long } decr. } 6 hours 20 min.
 11 day is 9 hours 30 min. long } 6 hours 56 min.

Jul. Ac.	Rom. Ac.	Kalends, Nones, and Ides.	Watch
			too flo.
1	11	Kalendæ.	13 18
2	12	vi no.	13 32
3	13	v	13 46
4	14	iv	13 59
5	15	iii	14 1
6	16	prid. no.	14 23
7	17	Nonæ.	14 34
8	18	viii id.	14 44
9	19	vii	14 54
10	20	vi	15 4
11	21	v.	15 13
12	22	iv	15 22
13	23	iii	15 28
14	24	prid. id.	15 34
15	25	Idus.	15 40
16	26	xvii kal.	15 45
17	27	xvi	15 50
18	28	xv	15 53
19	29	xiv	15 56
20	30	xiii	15 58
21	31	xii	15 59
22	1	xi	16 1
23	2	x	16 0
24	3	ix	15 59
25	4	viii	15 57
26	5	vii	15 53
27	6	vi	15 51
28	7	v	15 47
29	8	iv	15 41
30	9	iii	15 35
31	10	prid. kal.	15 29

OBSERVATIONS.

THere will be two Eclipses this Month, one of each Luminary. The first is of the Sun on Tuesday the fifth day about 2 in the morning, therefore invisible at London, but in the remotest South-Eastern parts of the World, whose Meridians lie six 44 hours distance from us, it will rise 54 eclipsed in their Horizon.



The last Eclipse is of the Moon Tuesday the 19th day, a little before 8 at night: if the Air be clear it will be visible at

London from the beginning at 30 m. after 6, to the end at 12 m. past 9. The middle will be at 5 m. after 7. The Digits eclipsed will be 9 on the North side.

Let the curious Astronomer now prepare his Telescope, and wait for the Sun's rising on the 24 day, to behold that rare Transit of Mercury's passage over the Body of the Sun.

November hath xxx days.

New Moon 3 day at 12 min. past 8 at night.

First Quarter 11 day at 38 min. past 2 afternoon.

Full Moon 18 day, 13 min. past 6 in the morn.

Last Quarter the 25 day 37 min. past 9 in the morn.

M D	WD	Remark, days.	Orif.	Sign.	Orif.	H.	M.	H.	M.
1	2	All Saints.	7 35	loins	24 4	M 46	0	10	0 32
2	3	All Souls	7 36	secrets	6 5	50	0	56	1 20
3	4	Craft. In im.	7 38	bladd.	18 0	sets.	1	44	2 7
4	5	S. Will. Born.	7 40	hips	0 5	A 3	2	29	2 51
5	6	Powder Plot.	7 41	and	12 5	46	3	7	3 22
6	7	Cold and cloudy	7 43	thighs	25 6	36	3	38	3 54
7	8	2 past Trinity	7 44	knees	7 7	33	4	10	4 26
8	9	about the be-	7 45	knees	19 8	33	4	44	5 3
9	10	ginning of the	7 47	legs	2 9	37	5	25	5 47
10	11	Month.	7 48	legs	15 10	48	6	17	6 48
11	12	MARTIN B.	7 50	legs	29 12	0	7	11	7 34
12	13	Craft. Dart.	7 51	feet	12 0	M 0	8	4	8 35
13	14	and frosty.	7 52	feet	26 1	16	9	8	9 42
14	15	2 past Trinity.	7 54	head	11 2	34	10	19	10 56
15	16	Winds stirring	7 55	face	2 53	31	11	19	
16	17	with rain if	7 57	neck	10 5	15	0	2	0 34
17	18	not Snow.	7 58	neck	26 6	36	1	6	1 36
18	19		8 0	arms	11 0	rise.	2	7	2 34
19	20	Octab. Dart.	8 1	arms	25 5	A 49	3	1	3 21
20	21	EDMUND K.	8 2	breast	10 6	53	3	40	3 59
21	22	3 past Trinity.	8 3	breast	24 8	1	4	17	4 35
22	23	CECILIA V.	8 4	heart	7 9	9	4	52	5 13
23	24		8 5	heart	20 10	16	5	34	5 57
24	25	more serene	8 6	bowels	3 11	21	6	21	6 44
25	26	KATHERINE	8 7	and	15 12	25	7	8	7 32
26	27	Quind. Dart	8 7	belly	27 0	M 25	7	57	8 25
27	28	and delightful.	8 8	loins	9 1	30	8	53	9 20
28	29	Advent Sunday	8 8	loins	21 2	32	9	47	10 16
29	30	Term ends.	8 9	secret	3 3	32	10	45	11 13
30		S. Andrew Ap.	8 9	mem.	15 4	34	11	41	

High Water at London-Bridge in the morning.

High Water at London-Bridge afternoon.

November 1697.

1 day 8 hours 30 min. long }
 11 day 8 hours 30 min. long } decr. } 7 hours 36 min.
 21 day 7 hours 34 min. long } 8 hours 6 min.
 } 8 hours 32 min.

Jul. Acc.	Rom. Acc.	Kalends, Nones, and Ides.	Watch too flo.
1	11	Kalendae.	15 21
2	12	iv no.	15 13
3	13	iii	15 3
4	14	prid. non.	14 53
5	15	Nones.	14 41
6	16	viii Id.	14 29
7	17	vii	14 17
8	18	vi	14 3
9	19	v	13 49
10	20	iv	13 34
11	21	iii	13 17
12	22	prid. Id.	13 0
13	23	Idus.	12 43
14	24	xviii kal.	12 24
15	25	xvii	12 5
16	26	xvi	11 45
17	27	xv	11 25
18	28	xiv	11 4
19	29	xiii	10 42
20	30	xii	10 20
21	31	xi	9 56
22	Dec. x		9 32
23	ix		9 8
24	8	viii	8 43
25	7	vii	8 17
26	6	vi	7 51
27	5	v	7 25
28	4	iv	6 59
29	3	iii	6 31
30	2	prid. kal.	6 3

The Descript. of the Weights for Gold and Silver concin-

By what hath been said already it appears that every peny w^t is worth

s. D.
 In Silver ———— 0 3 half farth
 In Gold ———— 4 0

Every Grain is worth.

In Gold ———— 0 2
 In Silver 8 grain is -- 0 1

And the English Coin weighs as follows.

	peny m.	gr
A Guinea weighs	5	9
A Crown in Silver	19	8
A Half Crown	9	16
A Shilling	3	21
A Sixpence	1	22

By observing what is the Weight of each piece of Money, it is an easie thing to discover any base Piece of Money; for if it holds its weight and is no thicker or larger than ordinary it is good; for no Metal is so heavy as Silver except Lead and Gold.

December hath xxxi days.

New Moon 3 day 28 min past 2 Afternoon.
 First Quarter 10 day 41 min. after midnight.
 Full Moon 17 day 48 min. past 5 afternoon.
 Last Quarter 25 day 10 min. past 6 in the morn.

MD.	WD.	Remark. days.	Orif.	sign.	Drift.	H.	M.	M.	H.
1	4		8 10	secrets	27 5M	34 0	10 0		39
2	5	The month be-	8 10	thighs	9 6	32 1	4 1		29
3	6	gins very mild,	8 11	thighs	21 1	56 2	56 2		23
4	7	and is likely to	8 11	knees	4 5A	13 2	43 3		1
5	8	2 in Advent.	8 12	and	16 6	133	17 3		32
6	9	hold so all the	8 12	hams	29 7	183	48 4		3
7	10	former part.	8 12	legs	12 8	274	21 4		40
8	11		8 13	legs	26 9	38 5	0 5		20
9	12		8 13	feet	9 10	50 5	42 6		4
10	13		8 13	feet	23 12	46	27 6		51
11	14		8 13	head	7 0M	47	21 7		52
12	15	3 in Advent.	8 13	head	21 1	188	27 9		2
13	16		8 13	neck	5 2	319	38 10		14
14	17		8 13	neck	20 3	54 10	50 11		25
15	18	Ember Week.	8 12	arms	4 5	9	0		0
16	19	near this time	8 12	shoul.	19 6	30 0	36 1		8
17	20	6 some hollow	8 12	breast	3 1	41 2	41 2		11
18	21	7 winds are	8 11	stom.	18 5A	24 2	41 3		1
19	22	4 in Advent.	8 11	heart	2 6	34 3	20 3		36
20	23	2 stirring, and	8 10	and	15 7	42 3	50 4		7
21	24	3: Thomas Ap.	8 10	back	28 8	49 4	24 4		41
22	25	4 small Frosts,	8 9	bowels	11 9	56 4	58 5		15
23	26	5 yet the month	8 8	belly	23 11	15	33 5		52
24	27	6 proves mild for	8 8	reins	6 12	46	12 6		35
25	28	7 Natus J. H. S.	8 7	and	17 0M	46	59 7		21
26	29	8 St. Stephen	8 6	loins	29 1	67	44 8		11
27	30	9 St. John	8 6	secret	11 2	78	38 9		9
28	31	10 Innocents	8 5	mem.	23 3	99	40 10		10
29		11 the Season.	8 4	hips	5 4	8 10	40 11		9
30			8 3	and	17 5	5 11	38		
31			8 2	thighs	30 6	1 2	1 2		25

High Water at London-Bridge morning.
 High Water at London-Bridge afternoon.

December 1697.

1 day is 7 hours 40 min. long	}	decr. incr.	8 hours 46 min.
11 day is 7 hours 34 min. long			8 hours 52 min.
21 day is 7 hours 28 min. long			o hours 6. min.

Jul. Acc.	Ro. Acc.	Ka ends. Nones, and Ides	Watch too flo. " "
1	11	Kalendae.	5 35
2	12	iv no	5 6
3	13	iii	4 38
4	14	prid. no.	4 9
5	15	Nonæ.	3 40
6	16	viii Id.	3 10
7	17	vii	2 40
8	18	vi	2 10
9	19	v	1 40
10	20	iv	1 11
11	21	iii	o 41
12	22	prid. Id.	o 11
13	23	Idus	o 19
14	24	xix kal.	o 49
15	25	xviii	1 19
16	26	xvii	1 too 49
17	27	xvi	2 18
18	28	xv	2 47
19	29	xiv	3 16
20	30	xiii	3 45
21	31	xii	4 14
22		xi	4 42
23		x	5 9
24	3	ix	5 36
25	4	viii	6 4
26	5	vii	6 30
27	6	vi	6 57
28	7	v	7 23
29	8	iv	7 48
30	9	iii	8 12
31	10	prid. kal.	8 35


The Description of the
Weights for Gold and Silver
continued.

NOW for your small Weights
of Troy to have them ready to
make any weight under a pound
without subtracting or taking out
of one Scale to put in the other.

For Ounces you shall need no
more but a 1 ounce, a 2 ounce, a 4
ounce, and an 8 ounce.

For Penny-weights, no more but
a 1 penny-weight, a 2 penny, a 4 pe-
ny, an 8 penny, and a 16 penny.

For Grains likewise, a 1 grain, a
2 grain, a 4 grain, an 8 grain, and
a 16 grain.

 Note, every piece of Money
contains its true value that it is coin-
ed to pass for : nothing to be al-
lowed for Coinage, that being at
the charge of the Crown.

The KING's

Collar-days and Offering-days.

Offering-days for the Lord Chamberlain.

New years day, Jan. 1.

Twelfth day, Jan. 6.

Gold, Myrrh and
Frankincense.

Christmasday, Feb. 2

Lady day, March 25

Ascension day, May 13

Trinity Sunday, May 30

St. John Baptist, June 24

St. Michael Archangel Sep. 29

Offering-days for the Lord Steward.

Christmas day, Dec. 25

Easter day, Apr. 4

Whitunday, May 23

All Saints, Nov. 1

Collar-days without Offering.

The Holy days and Sun

Feb. 12, their Majesties Ac-
cession to the Crown

Feb. 18, St. Matthias

Three days in Easter week

Apr. 1, his Majesty's Co-
ronation

Apr. 23, St. George

Apr. 25, St. Mark

May 1, St. Philip & Jacob

Holy days in Whitsun week.

12 in the Twelve days

Dec. 29, St. Peter

Dec. 25, St. James

Aug. 24, St. Bartholomew

Sept. 21, St. Matthew

Oct. 18, St. Luke

Oct. 28, St. Simon & Jude

Nov. 4, King's Birth day

Nov. 5, Powder Treason

Nov. 30 St. Andrew

Dec. 21, St. Thomas

To form Minutes into Hours and Quarters.

60 minutes are one hour

45 minutes are three quarters

30 minutes are half an hour

15 minutes are one quarter

Valgar Notes for the Year 1697.

The Golden Number	7
The Epoch	17
Cycle of the Sun	26
The Dominical Letter	C
Easter day	April 4
Whit-Sunday	May 23

The EXPLANATION of the Almanack.

IN the preceeding Almanack is two Pages in every Month ; as may be seen by inspection : The left hand page is the most general and useful, the right hand page to divert and please the Ingenious and particular persons.

I. In the first Column of the left hand page is the days of the Month.

II. In the second Column is the Week days distinguished by figures, it being the only proper method, in regard those represented by Letters change their places every year ; consequently not half so ready for use.

III. In the third Column you have all the Saints-days that are observed in the Church of England, with the Meteorological Observations.

IV. The fourth contains the time of Sun-Rising.

V. The fifth shews the Sign and Degree of the Moons place at Noon, as she governs the parts of Man's Body.

VI. The sixth Column gives the true times of the Moon Rising from the Full to the Change, and her Setting from the Change to the Full.

VII. The seventh has the true times of High-water at London-Bridge in the Morning, as is shewed by its Title.

VIII. The last shews the time of High-water in the Afternoon.

And all this in so facile and easie a Method that nothing can be plainer ; for looking on any day whatever, and guiding your eye in a strait line towards the right hand, and in the proper Column is readily shewn what you seek after.

The Almanack Explained.

How to make the Table of Tides useful to these following places.

To the given time of High-water at *London-Bridge*, add the hours and minutes that are prefix'd against any of the following places; so have you the time of High-water at these following places;

Adding,	h.	m.
For <i>Tinmouth Haven, Hartlepool, and Amsterdam</i> —	0	30
<i>Brest</i> —	1	0
<i>Scilly</i> —	1	45
<i>Mounts-Bay</i> —	1	55
<i>Bridlington, Peer and Humber</i> —	2	0
<i>Fowey, Loo and Plymouth</i> —	3	13
<i>Dartmouth, Harborough, and Hull</i> —	3	39
<i>Torbay and Tinmouth</i> —	3	40
<i>Exmouth, Topsham, and Lyme</i> —	3	50
<i>Weymouth</i> —	4	26
<i>Bridgewater and Texel</i> —	4	45
<i>Portland, Hareflew, and without the Ulie</i> —	5	40

And also subtract from the time of the Tides at *London*, so shall you have the time of High-water at these following places.

Subtract	h.	m.
For <i>Leigh, Maes, and Gouries-Gut</i> —	0	15
<i>Gravesend, Rochester, Rammekins</i> —	1	0
<i>Buoy of the Nore and Flushing</i> —	1	20
<i>Shore Beacon, Portsmouth, Red Sand and Ostend</i> —	2	30
<i>Spithead, Harwich, Dover, Calice</i> —	3	0
<i>Orfordness, Gunfleet, Hastings, Shoreham, Diep</i> —	4	0
<i>Needles and Yarmouth Peer</i> —	4	40
<i>S. Helens and Havor de Grace</i> —	5	30

But note, that in such of these places as lie open to the Sea, and where no great Rivers are, the Quarter Moon High-waters hold out longer than the time shewed by this Reduction, near half an hour:

The Almanack Explained.

As also that, when by reason of long Draughts in Summer, or continual hard Frosts in Winter, the Fresh waters are low, or when the Wind blows hard at N. or N. W. the Tydes may hold up longer in the River of *Thames* than the times shewed in the Almanack, but when the Wind is strong at W. or W. by S. or there are great Freshes, they hold not out so long, but the difference is seldom above half an hour.

The Right hand Pages Explained.

I. **O**N the top of these pages is noted the length of the day, with the increase or decrease of the same to every tenth day of the month.

II. In the first Column of the Right hand pages is the days of the month, according to the *English*, or *Julian* Account.

III. The second shews the days of the month, according to the *Gregorian*, or *New Roman* Account; which is used beyond Sea; with their Sunday Letter.

IV. The third Column contains the old Latin, or Pagan Kalendar, every month being divided into three parts, Kalends, Nones, and Ides; and those three days that were so called, gave denomination to all the rest; from which the days are accounted backwards, as the fifth or sixth of the Ides or the Nones of the month, but the Kalends took their names from the succeeding month. See my Almanack for the last year, where it is more fully explained.

V. In the fourth Column is the Equation of Time, for the true adjusting of Pendulum Clocks and Watches, where this mark (') notes Minutes, and this (") Seconds of Time; the Use whereof followeth.

Of the Equation of Time, and it's Use. How to regulate a true Pendulum Clock or Watch, shewing what it ought to differ from a true Sun-Dial.

ALthough I have several years past gave this short discourse concerning the right managng of a Clock or Watch, shewing when and what it ought to differ from a true

Of the Equation of Time, &c.

Sun-Dial; it being a thing very desirous and useful to several Gentlemen and others that are delighted with these pleasant Speculations; and being this may come into the hands of those that are hitherto strangers to this Curiosity, I will continue it.

Notwithstanding all Persons conclude that the *Sun* by his Motion sheweth the *Apparent* time of the day, which is true; and that a *South Sun* always makes a *Noon* or 12 a Clock; yet this Southing of the *Sun*, or the space of time from one *Noon* to another is not equal, but longer or shorter according to the *Sun's* Position in his *Ellipses*; so that it is impossible for any Clock or Movement whatever to keep time therewith. For this reason many Persons that are furnished with excellent *Movements* very often blame the *Artist* that was the Maker, when the Errors lie where they are not capable of discerning; for if a *Clock* truly rectified, be set by the *Sun*, and kept going a Year, and at the Years end agree exactly again with the *Sun*; yet in the *interim* it would be found at several times to deviate considerably; and be sometimes too fast, at other times too slow. The reason of this difference is, the *Clock* measures Time equally, but the *Sun* unequally: The Quantity of this Difference is express'd in each Month of the *Kalendar*, which I will further exemplifie thus.

Admit on the first of *February* I would set a Clock to shew the equal time of the day; I look in the *Kalendar* against *February* the first, and there I find 14 Minutes 48 Seconds with the Title *Watch too fast*, which informs me, that I must set my Clock so much the faster than the time given by a *Sun-Dial*, and then being kept going, it will, by the first of *March*, be but 10 Minutes 4 Seconds too fast, and on *April* the fourth the Clock and *Sun* would agree together exactly. Afterwards the Clock will begin to be slower than the *Sun*, as is noted in the *Kalendar*.

Thus by knowing the equal time, you may at any time, by the help of this Table, know the true or apparent: for look against the day of any Month and find the *Equation*, which if it be *Watch too fast*, then subtract that days *Equation* from the time given by the Clock, and it will be the apparent time: and if it be *Watch too slow*, then contrarily

Of the Equation of Time, &c.

trarily add the Equation to the time noted by the Clock, and you have your desire.

But in the right managing of *Clock* or *Watch*, it ought always to be examined by the same *Sun-Dial* it was set by, and at or near the same hour of the day too: for there is often difference in *Sun-Dials*, and withal not to set the Clock by the *Sun* early in the *Morning* or late in the *Afternoon*, for then the Shadow on the *Dial* is not the true time of the day, in regard the *Sun* hath at those times considerable Refractions, which makes it appear higher in *Altitude* than really it is, and the nearer the *Horizon* the greater the Refraction, so that the time given by the *Sun* is later in the *Morning* than truth, and the contrary in the *Afternoon*. Therefore to observe the true time of the Day, let it be always near Noon if it be a *South* or *Horizontal Dial* that you make use of; but if it be a *Quadrant* or other Instrument, it ought to be done with great Nicety, in regard that the *Sun*, between the hours of Eleven, Twelve and One, differs but few degrees in *Altitude*.

Of the LEAP-YEAR, and the Cause thereof; and the day of St. Matthias Feast determined.

VARIOUS and uncertain were the *Romans* in former times, not only about the beginning of the Year, but likewise in the length; for *Numa* the second King of the *Romans* succeeding *Romulus*, divided the Year into 12 Months, and did appoint the same to contain 354 Days. Long after whom succeedeth *Julius Caesar*, who 45 years before the Birth of Christ, and the year before his bloody Death, noting the falseness of the year then used by the Counsel of *Sofignes*, an excellent *Mathematician*, that the *Numan* year was only *Lunar*, wanting 11 days and 6 hours of a true *Solar* year; and therefore they added those 11 days and 6 hours to the former year, whereby the year did consist of 365 days 6 hours.

After *Caesar* had thus added those 11 days and 6 hours, making the year to consist of 6 odd hours, he further saw, that if they should be accounted forwards every year, there

Of the LEAP-YEAR,

would happen an inconvenience without getting of a day; for should the year begin this year at Noon, the next year at six in the Evening, and the third year at Midnight, &c. the *Annunciation* would in 124 years fall as late in the Spring as the Feast of *St. Mark* the Evangelist.

To avoid this inconvenience, they appointed that in every four years there should be a day gotten by the surplus of the 6 hours in every year; for 4 times 6 is 24, which is a day Natural, and hereby they keep the year back to his true place; which day they put at the 24. of *February*, whereby the 6 of the *Kalends* of *March* is twice repeated, as may be seen in my last years Almanack; so that although the Sun makes two Revolutions, yet it is accounted but as one day in the *Kalendar*.

So that the year *Bissextile* taketh Name of *Bis* and *Sexto*, because the 6 *Kalends* of *March* is twice expressed, for they accounting by a Regress method to us, yet it is direct to them; and that which comes on in an orderly way from 4 of the *Kalends*, 5 *Kalends*, 6 *Kalends* the latter of the two must needs be the Intercalary day, and the former the proper day for observing the Feast of *St. Matthias*, that being always kept on the 6 of the *Kalends* of *March*; according to the Verses:

*Bissextum Sexta Martis tenuere Calendæ.
Posteriore die Celebrantur festa Matthiæ.*

Further, altho' we number 29 days in the Month of *February* in the *Bissextile* Year, yet the *Latins*, as in other years, have no more than 16 *Kalends*, 8 *Ides*, 4 *Nones*, which added together make 28. And the Learned *Ecstadius* in his second Tome of *Ephemerides*, giving an account of the *Julian* Kalender, will have *February* contain but 28 days in the *Leap-Year*, and repeats the 24th. day twice, calling the first that comes in Progression, according to our method of Account (tho' it be true, yet very improper) the Intercalary day.

Then to make all things correspond, the Letter F is twice repeated at the same time, yet when 6 days are expired from the last Weekly Festival of our Lord's Resurrection, we observe

and the Feast of St. Matthias.

observe the next day (as at other times) for the Lord's day; and hence proceeds the reason of our having two Dominical Letters in the *Leap-Year*.

Thus it appears that the *Leap-Year* is nothing but a day which is gotten by the overplus of 6 hours in every year, making in 4 years 1 day, which if omitted for 364 years, the Birth of our Lord would fall out at that time that our *Lady-day* doth now. But this *Julian Year* is false, and hath bred a great inconvenience, as I have noted formerly, for the true year hath but 365. days, 5. hours, 49 minutes & seconds, 38. thirds.

This Discourse was printed in my Almanack for the last year, and should not be repeated again; but that I find one of our yearly Authors assert, that the Feast of St. *Matthias* is to be observed upon the 24th. of *February* for ever, let it be *Leap-year* or not.

It is certainly expedient that there ought to be no Rent or Schism in the Church about the Observation of her Feasts or Fasts, which must needs be, if our yearly Books, which most people have recourse to for Information, vary one with another about the times thereof: I could wish that Author, and those that be of his mind, to consider on what is offered here, and if they think it insufficient to give better reasons themselves in their next years Book, and I do promise them to be as ready to learn, as I am to inform others.

A farther Remark upon an Advertisement published in an Almanack for the Year 1695, and repeated again in the Year 1696, of Mars being Perigæo, by which 'twas affirm'd that Planet should appear in that Year 60 times bigger than when he is in Apogæo.

Aphelion seu *Apogæon*, is the remotest part of the Ellipsis or Point where the Planet is farthest from the Sun or Earth, and is slowest in Motion.

Remarks upon the Planet Mars

Perihelion or *Pergeson*, is a Point opposite to the *Aphelion*, and a *Planet* is then nearest the Sun or Earth, and is swiftest in Motion.

An *Ellipsis* is a Figure which somewhat resembles an Oval, and the Ingenious *Kepler* was the first that discovered the ways of the primary Planets about the Sun to be Elliptical; *Mars* and *Mercury* being more preceptable than any of the rest.

Bullialdus, the Learned *Kepler*, and other antient Authors, have assigned this Point or *Aphelion* of each Planet a certain Motion, yet somewhat different from each other; the places thereof (with the help of Astronomical Tables) is easily obtain'd for any time past, present, or to come.

Now according to *Kepler's* Limitation, these *Aphelions* move one Sign or 30 degrees in the following number of Years.

	Years	Days	Ann. Motion.
The Aphel. of ☉ in	1713	96 1	2
The Aphel. of ♄	1427	50 1	16
The Aphel. of ♀	2250	319 0	47
The Aphel. of ♂	1613	90 1	07
The Aphel. of ♀	1383	298 1	18
The Aphel. of ♄	1030	132 1	43

Bullialdus varies from *Kepler*, and assigns these *Aphelions* to move one Sign or 30 degrees in these Years.

	Years	Days	Ann. Mot.
☉	1898	334 0	57
♄	946	00 1	54
The Aphel. of ♀	1212	52 1	29
♂	1362	269 1	19
♀	2129	258 0	31
♄	1036	120 1	44

Our Modern Author the indefatigable *Street*, in his Theory, has fixt these *Aphelions* of the primary Planets, and allows

Being Perihelion and Aphelion.

allows them no Motion, save what is performed by the precession of the Equinox; and makes them to be 2250 Years in moving through one Sign of the Zodiac.

Hence it appears by all these profound Authors, that this Motion of the Aphelions is very slow, and are not liable, or assign'd to jump from one Sign to another, or through half the Zodiac on a sudden: so that this Author is under a great mistake in affirming δ to be Perihelion when he was Aphelion; or my Self in asserting the contrary: who was in the right shall immediately be made appear, by exhibiting the places of the Aphelions from these Authors for the present Year 1697: And then examine what part of the Heavens δ possess'd at the time limited.

The places of the Planets Aphelions Jan. 1. 1697, according to.

Kepler.				Bullialdus.				Street.			
S.	°	'	"	S.	°	'	"	S.	°	'	"
☉	♄	7	23 46	♄	7	6 25		♄	7	12 48	
♂	♂	27	59 56	♂	29	2 29		♂	27	22 48	
♂	♂	8	8 17	♂	10	23 58		♂	8	42 48	
♂	♂	0	48 8	♂	1	6 0		♂	0	4 48	
♂	♂	3	20 32	♂	6	44 13		♂	3	52 48	
♂	♂	15	39 16	♂	14	24 33		♂	12	40 48	

Here it is evident by the concurring opinions of these three Authors, that the Aphelion of *Mars* is at this time, and will be for this Age in the beginning of *Virgo*; and whenever it happens that *Mars* shall be posited there, he is then in his Aphelion or farthest distance from the *Sun*; and at the same time being in Opposition to the *Sun*, makes his Body appear lesser to our view, than when he is in the same Aspect with the *Sun* in other parts of his Ellipsis.

Also on the contrary, when *Mars* shall be in his Perihelion point, and in Opposition of the *Sun*; he is then in his nearest approaches to the *Sun*; and his Magnitude, at such times much exceeds any other of his appearances.

Now in my *Ephemeris* for 1696, February 6. I find *Mars* in *Virgo* $3^{\circ} 51'$ and his Heliocentrick place on the same day

Remarks upon the Planet Mars

day to be *Virgo* α 18. therefore *Mars* at that time was not *Perihelion*, as this Author has twice ignorantly asserted and published, but on the contrary in his *Aphelion*.

Notwithstanding I detected this Error of his in my *Ephemeris* for the Year 1695, which to a man endued with common knowledge in the principles of any Art, might have been sufficient Caution to re-examine himself whether he had not mistook his Notions, or made a mistake with the hasty dashes of his Pen: But this Author rather than take pains to inform his understanding, or have it thought that he should be found in an Error, is resolved to persist upon the Theam he had began, and give a second Onset, according his wonted Confidence with "The fiery Planet Mars is now *Perigæo*, &c. And to have his Reader think he has good Company of his side, is for lugging the excellent Bishop *Wilkins* by the Head and Shoulders to take his part and countenance his Ignorance, which that good Man never intended; for Bishop *Wilkins* is to be understood, that *Mars* is much greater in his appearances, being *Perigæon*, and in Opposition to the *Sun*, than he is in the same Position and *Apogæon*; And this I grant: (tho' not in so great proportion) But, that which I chiefly insist on is, That *Mars* in the Month of *February* 1696, was not *Perigæo*, but in his *Aphelion* or Opposite Point: And I challenge him to produce any thing from Bp. *Wilkins* to prove what he alleges or endeavours to insinuate; therefore his "Albeit I "had rather Err with this learned Prelate (if it should prove "an Error) than be in the Right with some little *Vernosfi*; is altogether Idle, Foolish and Rediculous.

But he tells us, that he remembers to have seen *Mars* so posited often; and that he hath cast out Beams like a Comet, particularly in the Years 1666, 1683, 1685, 1691. He had done well if he had inform'd us what part of the Year it was in 1666; for I find by Mr. *Wing's Ephemeris* for that Year, that *Mars* was in his *Aphelion* Jan. 3. his Geocentrick place at that time was *Libra*, 4 degrees: And *Perihelion* in the beginning of *December* of the same Year, his Geocentrick place then was in the beginning of *Aquarius*; Also by Mr. *Street's Ephemeris* for 1683, *November* 15, *Mars* was *Perihelion*, his Geocentrick place then *Capricorn* 26 degrees: The like again

! being Perihelion and Aphelion.

again in the beginning of *Dec. 1635*, his Geocentrick place in *Capricorn* as before: And lastly by my own *Ephemeris* for the Year *1694, May 25*. I find that Planet Perihelion, his Geocentrick place *Aries 11* degrees his Heliocentrick place *Pisces 0* degrees. Thus it plainly appears by these very Years he has mentonied, that when *Mars* is Perihelion his Geocentrick place is either in the beginning of *Pisces* or near it, and not in the opposite Sign *Virgo*, where he was posited in *Feb. 1696*. Therefore his mentioning those Years for to make good his Assertions, and not to prove *Mars* in or near the same parts of Heaven that he was in *Feb.* the last Year, serves only for a further discovery of his Ignorance, and a full proof to all intelligible Persons that have knowledge in this Science, of his insufficiency in those Arts that he has been so many Years a professor of. Therefore a Person altogether unlikely to produce an *Ephemerides for the Honour of the English Nation and Imprimery*, as he is pleased to phrase it; and those base *Ephemerides* which are already extant under his Name, is no small proof to make it manifest.

Thus I have made it appear by evident demonstration, that this Albeit Gentleman is notoriously Ignorant: And those visible Appearances of *Mars*, when the appointed time came, have fully refuted him, and detected his Folly, in affirming what he is altogether a stranger to.

Judgments on a Remarkable Nativity.

THis Nativity was inserted the last Year in an Almanack and Entituled, *A Remarkable Nativity*; and all the Modern professors and pretenders to Astrology, are thought by that Author to be a *Ne plus ultra*, to shew a Direction that should agree with the time of her Death, which was *November 15. 1683*, after 5 days Illness, being then 16 Years and 8 Months old.

No doubt but the Publisher thinks as he writes, *viz.* to the Amazement of all that shall see it; and I really think so too, tho' in a quite different sense from him: For whereas he thinks it will puzzle all the Ingenious Pretenders, a Character he is often



when pleas'd to bestow on other Professors, and seems to intimate that all others are but meer Pretenders, and know little of any thing of what they profess; but the true knowledge of Art to be in himself only, or at least those few he has been pleas'd to impart it to.

Now I being one of those Pretenders (if not the principal one aim'd at) think my self equally concern'd at least with the rest of my Brethren Astrologers, to take notice and make a reply to this lofty and conceited Author, and convince him (or at least those he has endeavour'd to deceive) that there be those in the world which can see within an inch as far into a Millstone as himself, and plainly demonstrate the time of that Natives Death to be exactly pointed out, which is more than himself hath done; and do think that instead of puzzelling an Artist, he could not produce a Scheme that shall more eminently declare the verity of Astrology, than the time of this Natives expiring doth; and this shall be demonstrated by the old Method.

thod used by former Practitioners without the help of *Placidus* the Monks Parallels, Converse Motion, or other whim-gigs whatever.

That she died on the *Sun's* direction to the \square of H he readily owns, and I think there was great reason to expect it; for here we find H (according to the old Rules of Astrology) is Lord of the sixth and eighth Houses; one the House of Diseases and the other of Death, which is very remarkable: So that nothing can be more rational than to look for death upon the \odot 's approach to the \square of that Planet; and tho' a Square is not the most malignant Aspect, yet as H is posited here in S to the Ascendant, which is an Aphetical place, is a most inveterate Enemy to the Life and Being of this Native; and for this reason caused the direction to Operate with the greater violence. And because I will not leave my Reader in the dark, as he has done about the Ark of direction 15 deg. 3 min. to give 16 Years 5 Months: I will exhibit the direction according to *Kepler's* method, and then leave my Reader to judge of the same.

According to *Hecker's* Ephemerides, the *Sun's* place reduced to the time of Birth at London is γ $14^{\circ} 48' 30''$ exceeding his Noon place of that day $1^{\circ} 26''$. the \square of H is in S $1^{\circ} 2'$ from which substract $1^{\circ} 26''$ i. e. what the \odot in the Birth exceeds the Noon place of that day, then it will be S $1^{\circ} 0' 34''$. then looking in the same Ephemeris and find when the \odot comes to that point: The nearest lesser place of \odot is *Mar* 10 in S $0^{\circ} 24' 34''$. which I substract from S $1^{\circ} 0' 34''$ the difference is 36 minutes: Now from *March* 25. the day of Birth, to *April* 10. is 16 Days, which gives 16 Years.

The Diurnal Motion of \odot *April* 10. is 58 min. then the proportion is, as 58 min. to 365 days, so 36 min. to 227 days.

Therefore the \odot came to the \square of H at 16 years and 227 days, which is *November* 7. being within a Fortnight of the time the Sickness invaded the Native; which is worth observing, when this Man of great parts falls short three whole months by his own Confession.

Thus have I shewn the \odot 's direction to Operate almost at the very punctum of time that this violent Illness seized the Native, which he is really deficient in performing; and yet would have the World think, the true measure of Time is known to him only.

And now to his QUERIES.

1. Why should her Life be so short, and the ☉ Hileg in his Exaltation in the tenth House? 2. Why should the ☉ to the ☐ of ♀ have more power to kill, than the ☉ to the body of ♂ had, which she out-lyed? 3. Why should the ☉ to the ☐ of ♀ give a Fever, seeing he is by nature Cold, and the Aspect fell in ☿ a cold Earthly Sign? 4. And lastly, What can they say in defence of their *Alchocoden*, &c.

To his First I agree with himself, and esteem it Rational.

To his Second I have this to say, The ☉ to the body of ♂ is not so likely to Kill as the ☐ of ♀; for ♀ is very malevolent by position, as I have noted before, and the fury of ♂ much mitigated, by the benevolent influence of the △ Aspect of the ☽ to the ☉ and ♂, transferring the friendly Rays of the ☉ to ♀ and ♂, besides ♂ is under Combustion, which himself calls an Affliction. This is a Natural Consequence according to the Rules of Art, without the help of Parallel.

To his Third, it is not to be admired at, that she should die of a Fever, an acute Disease, tho' a direction of ♀ kill'd her; if we observe how the Ascendant ☉ and ☽, which are three Aphetical points, and directed in all Nativities to shew the Felicity or Misery of a Native, are all radically posited in violent and fiery Signs, and is also influenced by the ☿ of ♀ to ☽, which falls in the like Sign from the eighth House, and the Lady of the fourth, and is further augmented by the ☉ being afflicted by the propinquity of ♂, which occasions an inflammation of the Spirits. That these Positions may cause the Native to expire by a Fever is more reasonable; than to think, that the only friendly Aspect in the Heavens should have violent Effects.

And lastly to his Fourth, I know no Modern Author of Note that lays any stress on the *Alchocoden*, but rather reject it as an *Arabian Foolery*.

And now I leave it to the judicious Artist, who makes Reason his Rule, and Experience Umpire of his Cogitations, whether these or that Authors Notions are most agreeable to those Verities they have met withal in their daily practice: Some perhaps have not used or accustomed themselves to Kepler's Method in Directions; those that have not let them
for

A Gentleman's Observation.

for the future try it; I recommend it to them for the most Rational, and to be prefer'd before all others: And this Example I hope may plead for its Excellency. My Opposer is hugely addicted to depend upon Old *Ptolomy* for a Guide; not a Question to be put where the Great *Ptolomy* has deliver'd his Notions. The Great *Ptolomy's* Table of Houses are the only Ones, &c. Now I would gladly know a reason why *Ptolomy* should be more Infallible than any other Author: it was not his great knowledge in Astronomy beyond other Authors that must make us think so; nor indeed was he worthy to stand in Competition with them; witness his botch'd and confus'd System of the Visible World, and perplext Epicycles to solve the Caelestial appearances, and yet to little purpose; for how vastly wide are the inferior Planets, especially found to deviate from his Limitations! Yet this is not all that's to be objected against him: For I have often heard the famous *Street* tell and relate of his Villany in recording of his Observations that he has pretended to have made of the Planets; when no such Phenomena has been in the Heavens which he has related; performed only to make them concur with his Tables; whereby he gave him and other Authors more trouble in fixing a Solid *Hypotheses* than otherwise they should have met with: For what reason then should we think he must be so profound an Artist in *Astrology*, and yet so deficient in *Astronomy*, which is the very foundation of the former: I rather think that Impudence that prompted to one might excite him to the other: And therefore his *Aporisms* or whatever he has deliver'd to Posterity are of no force with me but when they keep pace with Reason. And since this Author has assum'd his Notions, and undertakes to defend his Principles, let him in the first place give a Rational demonstration of his Table of Houses which he so much magnifies; what is the height of the Pole of each House (to a particular Latitude); and by what great Circles they are framed: It is too dogmatical to assert a thing Absolute and not to prove it; which is the Custom of this Author.

Let him also assign us what degrees of influence his upstart Parallels have, whether equivalent to a \square , or an \circ , or a Δ , or whether the Mundane Particles second Zodiacal and are more

more Malvolent or not, as we all alike, that we may be at a certainty with him; for I trust he can blow hot or cold, and make them as he pleases.

Let him also assign us the distances of his new Aspects, that we may not be liable to mistake him; and tell us whether their influence be equal in Power; and what we are to esteem Malevolent, and what not, that we may not contend with a *Will-o'-the-Wisp*, or be found fighting with the Air instead of a Giant: When he hath done all this I have more to offer, which if he gains the Point, I will promise to become his Disciple, in the mean while Farewel.

F I N I S.

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